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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/445,112	02/17/2000	HEINRICH JURGENSEN	P99.2405	9473
7590 08/20/2004			EXAMINER	
Schiff Hardin & Waite			FLORES RUIZ, DELMA R	
Patent Department 7100 Sears Tower			ART UNIT	PAPER NUMBER
	Chicago, IL 60606-6473			
			DATE MAILED: 08/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u></u>		XK				
	Application No.	Applicant(s)				
Office Action Commons	09/445,112	JURGENSEN, HEINRICH				
Office Action Summary	Examiner	Art Unit				
	Delma R. Flores Ruiz	2828				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing - earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a re oly within the statutory minimum of thirty I will apply and will expire SIX (6) MONT te, cause the application to become AB	oply be timely filed r (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>06 N</u>	Mav 2004.					
· _ · · · ·	s action is non-final.					
3) Since this application is in condition for allowa) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 29-39 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 29-39 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.	· · · · · · · · · · · · · · · · · · ·				
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	e drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	, ,,					
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Appority documents have been in the law (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)	ummary (PTO-413) //Mail Date formal Patent Application (PTO-152) 				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 29 – 39 are rejected under 35 U.S.C. 102(b) as being anticipated by Shaw et al.

Regarding claim 29, Shaw discloses a method for reducing pump light in a region of a laser light exit of a laser resonator fiber, comprising the steps of; providing said laser resonator fiber (see Fig. 1, Character 12) as comprising a fiber core (said limitation only recites facts and features that are well known and expected, the same features that essentially result from the use or application of a fiber core, and therefore said limitations are said to be inherently disclosed in the teachings of Shaw) surrounded by a pump fiber comprising an inner fiber portion which in turn is surrounded by a sheath (see Fig. 1, Character 14); at a light entrance end of said pump fiber (see Fig. 1, Character 24), inputting pump light so that laser light arises in said fiber core and exits

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from said fiber core at said laser light exit (see Fig. 1, Character S₀) and at least section of said pump fiber preceding said laser light exit, allowing substantial remaining pump light to escape from the pump fiber to reduce pump light from being emitted with the laser light at said laser light exit by removing at least a portion of the sheath at said last section (see Fig. 1, Abstract, Column 1, Lines 20 – 25, Column 2, Lines 3 – 21, 51 – 60, Column 3, Lines 15 – 32, Column 4, Lines 23 – 68, Column 5, Lines 1, 13 – 15, 38 – 64, Column 6, Lines 9 – 68 and Column 7, Lines 62 – 66).

Regarding claims 30 – 31, Shaw discloses at least partially stripping said laser section of said sheath and the sheath is entirely stripped away at said last section (see Fig. 1, Abstract, Column 1, Lines 20 - 25, Column 2, Lines 3 - 21, 51 - 60, Column 3, Lines 15 - 32, Column 4, Lines 23 - 68, Column 5, Lines 1, 13 - 15, 38 - 64, Column 6, Lines 9 - 68).

Regarding claim 32 – 34, Shaw discloses a during manufacture of said last section only at least a part of said sheath is provided thereon and during manufacture of said last section no sheath is provided thereon at all (see Fig. 1, Abstract, Column 1, Lines 20 – 25, Column 2, Lines 3 – 21, 51 – 60, Column 3, Lines 15 – 32, Column 4, Lines 23 – 68, Column 5, Lines 1, 13 – 15, 38 – 64, Column 6, Lines 9 – 68).

Regarding claims 34, 35, and 38, Shaw discloses a providing said sheath such that a diameter thereof tapers in wedge-like fashion toward said light exit in a region of said last section and removing at least the portion of said sheath at said section by etching (see Fig. 1, Abstract, Column 1, Lines 20 – 25, Column 2, Lines 3 – 21, 51 – 60, Column 3, Lines 15 – 32, Column 4, Lines 23 – 68, Column 5, Lines 1, 13 – 15, 38 – 64, Column 6, Lines 9 – 68).

Regarding claim 36, Shaw discloses a fiber laser, comprising; a pump light (see Fig. 1, Character 24); a laser fiber core (said limitation only recites facts and features that are well known and expected, the same features that essentially result from the use or application of a laser fiber core, and therefore said limitations are said to be inherently disclosed in the teachings of Shaw) as a laser resonator surrounded by a pump fiber comprising; an inner fiber portion which in turn is surrounded by an outer sheath (see Fig. 1, Character 14), said pump light being received in said pump fiber at a light entrance end thereof, and said fiber core having a laser light exit at an end thereof opposite said light entrance end of said pump fiber where a laser light arising in said fiber core exits and at a alt section of the pump fiber leading to said light exit, substantial remaining pump light escapes from the pump fiber so that pump light emitted w3ith laser light at said laser light exit is reduced, since at said lase section said sheath id at least partially removed (see Fig. 1, Abstract, Column 1, Lines 20 – 25, Column 2, Lines 3 – 21, 51 – 60,

Column 3, Lines 15 – 32, Column 4, Lines 23 – 68, Column 5, Lines 1, 13 – 15, 38 – 64, Column 6, Lines 9 – 68 and Column 7, Lines 62 – 66).

Regarding claims 37 and 39, Shaw discloses a sheath at said last section is entirely removed, and last section said sheath is removed completely and an outer portion of said inner fiber portion is roughened where said sheath id completely removed leading to said laser light exit, (see Fig. 1, Abstract, Column 1, Lines 20 – 25, Column 2, Lines 3 – 21, 51 – 60, Column 3, Lines 15 – 32, Column 4, Lines 23 – 68, Column 5, Lines 1, 13 – 15, 38 – 64, Column 6, Lines 9 – 68).

Response to Arguments

Applicant's arguments filed 5/6/2004 have been fully considered but they are not persuasive.

Applicant argues the prior art lacks: In claim 29 goes no to recite that at least portion of the sheath is removed at the las section. The examiner disagree with the applicant arguments since the prior art does teach In claim 29 goes no to recite that at least a portion of the sheath is removed at the las section (column 7, lines 62 – 66) as stated in the rejection above.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delma R. Flores Ruiz whose telephone number is (571) 272-1940. The examiner can normally be reached on M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Sun Harvey can be reached on (571) -272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Delma R. Flores Ruiz

Examiner Art Unit 2828 Min Sun Harvey
Supervisor Patent Examiner
Art Unit 2828

DRFR/MH August 19, 2004